

a casia			DE G		
ILLUSTRATIONS.	Engine, gasoline, Olin	Motor, gasoline, Old's	Tree growth, eurions	Armor plates, nickel	Capstans, electric. *312 Carbon, crystallisation. 188 Carbon, what is it r. 101
	Engines, rotary, ancient 165	arceors, has and kaponine see	Tricycle, two-scated 235 Trolley, conductor, Muir's 356 Tuck marker, improved 388 Typewriter, Edison 68 Typewriter prism 294	Armor, wonderfully strong. Army as a high school. 31. Art Society, Municipal. 30, 313. Arts, useful. 128 Ashes, coal, as fertiliner. 33	Carbon, what is it?
Academy, Webb 120 Afghanistan, ship 121 Air compressore, improved 249 Air pump Blake's 86 Air ship, Maxim 283	Envelope, dispiay 102 Envelope fastening, Harris 6 Envelope seal 280 Exhibiting apparatus, Tower's 37 Exhibition, Autwerp 37 Exhibition, Midwinter 366	N	Unicycle, Hendrich's	Army as high school. 31 Army as a high school. 31 Art Society, Municipal. 50, 81 Arts, useful. 12 Anhea, coal, as fertiliser. 57 Anparagus. 40 Aasignments, decision on. 371 Association, Amer. Adv. 8el. 57 Astronomer, honors to as. 38 Astronomer, photographic. 13 Astronomer, photographic. 13 Anphyxia, action oxygen. 38 Anphyxia, action oxygen. 38 Analantis, plant of . 38	Carbon, what is it?
Analgamator, ore	Expander, boller tube		Unicycle, improved 20	Astronomy, photographic. 134 Asphalt, Trinidad 67 Asphyxia, action oxygen 5 Atalantis, island of 38 Athletic solved benefits 166	Cars, cable, Chicago
Amalgamator and grader 200 Anag'sphs. 341 Antelopes, swamp 130 Antlers' in tree trunk 59 Antwerp Exhibition. 377 Antwerp exposition. 171 Apparatus, electric, new 588 Apple, how to cut. 406 Arch support 101	Expedition, Stein 32: Experiments, interesting 122 Exposition, Antwerp. 171	Ocean depths, animals	Valve gear, Grime's	Atalantis, island of	Cars, street, helping up hill 103 Carpet streetcher 196 Carriage, electric, Carri's 95 Carriage, electric, Posechain's 95 Carriage, steam, new 900 Carriage, steam, new 900
Apparatus, electric, new	Fair, Midwinter, California225, 248 Faucet, air brake	Ore crusher, Bishop's	Vaive, rener, narrison's 117 Vaive, steam actuated 252 Vehicles, oscillating device 274 Vessel, aerial, Spacth's 117 Vessels, propulsion of 2,8 Vaion, right and left hand 258	Bacteria, chemistry of	Cort. toy
Bahama expedition	Feed bag, Terry's 228 Feedwater heater 197	Paper box making	w	Baoteria, chemistry of	Cartriage anel extractor 188 Cash, selling for 188 Cashava meel and taplocs 384 Castings, steel, process 386 Cataract of eye, how to see 386 Cat. domestic, notes on 188 Caucasus, excavations in 188 Caucasus, excavations in 188
Bahama expedition 229 Bailoon, Spacth's 116 Battery, storage, system 177 Battery, storage, Waddell 184 Bell for magneto cal 118 Belt lacing, Bristol 230	Fender, car. Improved. 200, 281 Fender for street cars. 68 Filter. Berkefeld. 366 Filter. Bommarius 754 Fire carkers. 400 Fire extinguisher. Holmes 360 Fire extinguisher. Holmes 370 Fire extinguisher. 400 Fire extingu	Paper box maxing 3n Paper digarette 277 Park Ave. improvement 257, 299 Photography, iliusive 137 Photography of head on table 344 Photography, trick 137 Photography, tricolor 197 Photomicography, tricolor 197 Photomicography, apparatus 301 Pier for American Line 180 Pine copes or coccopes 443	Wagon, steam, Simonds	Barometer, novel 98 Barometer, sensitive 38 Batrachians, adaptation 16 Battery for incandes, iamps 37 Battery, storage, lighting 243	Caucasus, excavations in
Bell for magneto call Bell for call Bell f	Fire ladder, improved. 37 Flour mill, Harrison 39 Flower and feather manufact. 352 Flowers, why beautiful. 353	Pipe, Miles Standish's 107		Battery, storage, lighting 265 Rattery, storage, Waddeli 184 wax te mines of Ireland 277 Bauxite mining, Alabama 166 Beans oil 166 Beans and floors, concrete 260	Cautery, solar, antiquity of. (20ve discoveries, Mentone 294) Codar for pencils 202 Cell, dry, to restore, 97 Celluloid, dangers of. 216 Challen, the Appropriate 197 Challen, line, Angerson's 298 Challen, line, Angerson's 298
Bicycle driving gear \$6, 244 Bicycle drop forgings 55 Bicycle, electric railway U7 Bicycle exercises, Leipsig, 315	Forestry exhibits, Chicago 80 Fruit stoner, Boeri's 257 Funeral on River Spree 261 Furnace, boiler, Muller 300	Plants in old places 4 Pollen Post hole machine 184 Pottery kim, new 148	Watch winding device 26 Watches, curious 265 Watches, low-priced 116 Watches, Waitham, exhibit 25 Water motor, automatic 372	Bearings, ball, for wagons. 342 Bees, flight of. 375 Beet sugar items. 123 Beetles, chemical defense 362	Chalker, line, Anderson's
Bicycle mirror 180 Bicycle upon raiis 298 Bicycles, tolumbia 53 Bicycles, Diamond 133 Bicycles, Diamond 133	G COLUMN DOUBLE COLUMN	Pipe tongs, substitute. 216 Pipette, automatic . 167 Pianta in old places . 4 Pollen . 253 Post hole marchine . 14 Pottery klin, new . 148 Press, belting, double . 5 Propulsion apparatus, boat . 25 Pumps, air, of cruiser New York . 88 Pumch, hand, Johnson's . 10 Punching machine, large . 21 Punversing machine, large . 36 Purse, puzzie . 310	Watering live stock	Belt lacing, Bristol 220 Belting press, double 5 Benz-aldebyde green 60 Bloycle ambulance 379 Bloycle a satisfactor 367	Character, acquired 106 Characters, acquired 106 Charcoal, uses and utility 1700 45 Chemical research, potentiality 34 Chemicals, photo, injurious 128 Chemistry of taning 218 Chemistry of taning 170, 256 Chico. Instructor, what is? 170, 256 Chico. Instructor of 170 Chico. Chico. Chico. Chico. Chico. Chico. Chico. Chico.
Billroth, Theodor. 263 Bird of Paradise. 11 Boat, aluminum. 228 Boat, bloyele. 187	Gas burner, heating	Purverizing machine. Traver's. 36 Purse, puzzie. 310	Welding rais, electric.	Bicycle boat 197 Bicycle brake. Balley 258 Blayele, crank, 1de. 267 'icycle distance counter. 340	China, language of
Boiler attachment 101		Quicksand, controlling 86	Window sash fastener 292 Wood pulling 59 Word counter, automatic 36 Wrecks, lines from 25 Wrench, Seymour's 212	Beams and Boors, concrete	Cicada, periodical 356, 478 Cigarette paper. 277 Cinc.mati's ensine trial, 466 City, Gallo-Roman, discovery 37 City under one roof, 31 Clockwork mechanism, new 286
Bowling alley, centrifugal 277 Brace, Reid's 213 Brake, bloycle, Balley 356	Glyptodont, the	R. Railroad, aerodromie		Bicycle race, international. 188 Bicycle railroad, the. 182 Bicycle transportation 322 Bicycle upon rails. *866 Bicycles, to lumbia *33 Bicycles, to lumbia *133 Bicycles, Diamond. *133	Clockwork mechanism, new "255 Clothing, function of HI Clover machines prises for 277 Coal, American, in Mexico, 218 Coal anhes as fertiliser 578
nrake 20° Ollid's carriage. 95 Bridge, lift, new. 95 Bridge, Wagon, Galveston. 15% Bridge, Harlom River. 340 Bridge over the Hudson 95 Building construction. freproof. 573 Building, Criminal Court. 16% Building, Midwinter Fair. 202	Graft, natural, curious 89 Graft, tree, natural 148 Grain mills, Harrison 30 Grate, air, Gadey 5 Grinding machine holder 165	Railroad, electric, adison.original 78 Railroad, electric, mountain. 72 Railroad, trolley, Lawrence. 267 Rails, weding, electric. 567 Railway, cable, aerial 102 Railway, cable, Third Avenue. 152 Railway, electric, bicycle. 97 Railway, N. Hudson County 241 Railway, tubular, Channel. 347 Railway, tubular, channel. 347 Railway, acrees electric 257	Zinc exide manufacture 9	Bicycles, Columbia	Coal ashes as fortiliser. 578 Coal bin, contents. 576 Coal hoisting plant. 789 Coal strike and its lessons. 354 Coal tar medicaments. 371 Coal vein in Tonquin. 185
Building construction. Sreproof. 373 Building, Criminal Court. 106 Buildings, Midwinter Fair. 232 Burner, Bussen, new 213 Burner, gas, heating. 212, 392	Grinding machine holder. 165 Grip, cable, Humphrey's. 43 Gun scales, Waterviist. 321 Guns, breech loading, history. 337	Railway, cable, Third Avenue. 129 Railway, electric, bicycle		10 10 10 10 10 10 10 10	
Button Ratener	H Harps, Eolian	Railways, street, electric 245 Ratchet stock, Climax 196 Relics, colonial 197 Bock drill, electric. 260	MISCELLANY.	Birds that sing on the nest	Coffee strainer
Cable cars, Chicago	Harps, Eolian. 251 Havock, torpedo boat. 21 Hay loader, Bird's. 21 Heater, feed water. 197 Horn, birch bark. 59 Hornet, torpedo destroyer. 313 Horse nalia, Capewell. 22 Horseshoe in a tree. 59 House of an architect. 344 Hulls, vessels', O'Brien's. 57	Saracibar, Senor, house of	Figures preceded by a star (*) refer to illustrated articles.	Bird hummins, at home. Fird of Paradisc. Fird of Paradisc. Firth quadruple. Elliste that sing on the nest. Elliste that sing of the nest. Elliste that s	Colors lindness #8 Colors, dye, some new 247 Colors in glass making. 71 Colored stereos, how to see 404
Cable winding machines 23 California, geological changes 52 Cali bell, magneto 118 Camera attachment 157	Horse nalls, Capewell 22 Horseshoe in a tree 89 House of an architect 244 Hulls, vessels, O'Brien's 37	Saw straightening machine	Academy, Webb. *120 Academt, a peculiar	Boats and sleds, sluminum	Colt, Samuel. 367 Columbia, official trial of 342 Combustion, spontaneous 194 Comet a new 280, 37 Campania and Lucania. 340
Canal, ship, Manchester, 145, 152, 153, 154 Candy, rock 280 Capstans, electric 312		Screw plates for pipe	Acid, citric, artificial 300 Adhesive mounting, photo 50 Advertisements, universal 304 Afghanistan, ship 121 Africa, Italian coionisation in 274 Africa, South, exploration 261	Boiler explesion 75	Compo-board 550 Compressors, air, improved 299 Concrete, effect of fire 198 Conductor, troller, Muir's 266
Car coupling, Dunlap's	Ice making plant, a large. 85 Blusion, optical 192 Incubator, Monitor 21 Indiana, war abip. 167 Indication machine, new 25 Ink fountain printing press. 116 Iron, and, improved. 167 Iron, and, improved. 167	Souperring macmine for Seal, envelope 25 Ship Afghanistan, 22 Ship, afr, Maxim 28 Ship, air, Maxim 28 Ship, air, Speeth's 15,102,168,164 Ship canal, Manchester 18,102,168,164 Ship, medieval, froncisd, 260 Ship of war Indiana, 167	Africa, South, exploration. 261 Agaie, imitation. 302 Air and life. 218 Air and life. 162	Boiler Serpollet's 213	Contemporaries, opinions or at
Carpet stretcher. 196 Carriage, electric, Carii's 251 Carriage, electric, Pouchain's 69 Carriage, steam, new. 20	Ink fountain printing press 116 Ironeiad, mediaval	Ships, war, British, Bew	Arroa, Souta, exporasion. 201 Afran, the. 212 Aira, the. 212 Aira ompressed, care driven by 304 Air, compressed, devices. 224 Air, compressed, devices. 224 Air, compressed, sweeping with 224 Air compressors, improved. 216	Boring machine, post noise. 194 Bottoms, frozen. 246 Bowling alley, centrifugal. 227 Bowling alley, centrifugal. 228 Brace, Reid's. 213 Brake, bicycle, Bailey. 238 Brake, engine, Cleveland's. 38 Brake for child's carriage. 34 Brake for norowed. 45	Copper, photo, etching on. 286 Copying from 170 Copyright law, results of 51 Cordite. 386 Cotton bleaching 386 Cotton bleaching 486 Cotton mills, electric. 391 Cotton mills in Egypt. 388 Cottons, foreign competition on. 387 Counter, word, automatic. 398 Counting, Indian system. 168 Counting, Indian system. 168 Counting, Counter, car, Dunhan's 277
Carriage, steam, new 20 Cars, cable, Chicago 56 Cars, street, fender for 60 Cart, toy 374 Cartidge shell extractor 186 Cat domestic rote or 186	J Jewfish, the	Sight, right and left band. 28 Signal apparatus, automatic. 41 Sled, Swedish. 84	Air pumps of the New York "88	Brake for child's carriage. % Brake, high-speed, trials. 814 Brakes, improved. 45 Bread, sour. 162 Breweries of the world. 68	Cotton ginning machinery '844 Cotton mills, electric
Chain links, drop forged	К	Soap vase, sanitary 148 Sound waves, illustrating 36 Sparkstotting, the 84 Speed indicator, starrett's 35 Speedway, New York 198	Albumen prints, washing. 259 Alcohemists, alloys of 11 Alcohol, freezing 259 Alcohol, turf 134	Bridge, Harlem River	Court, criminal, building*105
Cleads, periodical 378 Cigarette paper 277 Clapboards, cutting 89 Clockwork, mechanism, new 245	Kiln, pottery, new	Speedway, New York 198 Spiders, venomous 99 Sprinkler, automatic, Holmes' 19 Sponge, deep sea 38 Stamp mill steam 216	Alloy, a yellow colored	Bridge, Mississippi, new 281	Cream separator, Danish °196
Cars. Cars	Lacing, belt, Bristol	Steamboat explosion	Alloys, sichemists'. 11 Alloys, influ, orbrop, metals. 120 Aluminum 163 Aluminum boat. 228 Aluminum boats and sieds. 227 Aluminum boron bronze. 70	Briquettes, petroleum 88 Bronse, aluminum 167 Bronse, aluminum boron 70 Bronsing, simple process of 28 Brown Seguard, 17. 25. 39 Buffalo robe substitute. 35	Croiser Montgomery
One strainer. 202 Oln disappearance 401 Compound engine. 401 Compressor, the St. Clair. 85 Compressor, at, improved. 239 Conductor, trolley, Muir's. 356 Conductor, trolley, Muir's. 356 Conductor, trolley, Muir's. 366 Conductor, trolley, Muir's. 366 Conductor, trolley, Muir's. 366 Conductor, trolley, Muir's. 366 Counter, trolley, Muir's. 368 Coupling, car, Dunlap's 277 Court, Criminal, building. 166 Crane, 160 ton. 381 Crane, 160 ton. 381 Crane, 160 ton. 382 Crane separator, Danish. 186 Craiser Montgomery. 106 Cruiser Montgomery. 106 Cruiser Montgomery. 107 Cruiser Montgome	Ladder for sleeping cars 276		Aluminum boronse	Buffalo robe substitute	Creameries and typhold: 382 Cristalline 5 Crockery, how to mend 25 Crolser Montgomery **105 Cruiser Montgomery, trial 47 Cruiser Montgomery, trial 48 Cruiser New York *8 Cruisers, high-speed, new 127 Cryolite of Greeniand 310 Crystals nase 72 Crystals, snow 161 Cultivator, improved *313 Current collector for dynamos *117 Current distrib, elect.danger 306 Cutworns to get rid of **382
Counter, word, automatic 308 Counter, word, automatic 308 Counter, word, automatic 308 Counter, criminal, building, 106	Lantern, cassoving view 51 Lantern, optical, new 52 Lantern, projection 160 Lantern slide, sound wave 365 Lantern slide, sould wave 365 Lantern slide, soloring 181 Lathe, pollahing and buffing 275 Lathe, triple geared 36 Lathing, netallic 116 Life guard, street csr. 68	Sundial, pocket, ancient	Aluminum boron bronse. 10 Aluminum bronse. 167 Aluminum, coating 55, 165 Aluminum in prop. phosphorus. 277 Aluminum manufacture 135 Aluminum manufacture 135 Aluminum with fabrics. 181 Aluminum yachts 187 Amaigamator and grader 280 Ambergris, big woney in 285 Ammonia, yathesis of 316 Ammonia, yathesis of 316 Amagiyaha of 316 Amagiyaha 64 Anglamator 65 Anglyphs 486 Andmania, deen aes. 786	and the same of th	Common Marrie elemetron of 957
Crane, 160 ton 301 Crank, bicycle, Ide 372 Cream separator, Danish 106 Cruiser Montgomery 106	Life guard, street car	Tachocycle 181 Tea house, Japanese 366	Amaigsmator and gracer. 282 Amaigsmator, ore. 282 Ambergris, big money in. 394 Ammonia, synthesis of. 348 Amphibians, dualism of. 376	Buildings, engineer's work in .500 Buildings, fireproof. 124 Buildings, tall, vibrations. 171 Buildetsper ments. 310 Burner, Bunsen, now 1213 Burner, gas, heating 1213, 2425 Business law in daily use. 227	Cyanotype process 6 Cycle sundries, exhibit 50 Cycles, Diamond 128 Cycling in Russia 863 Cyclometer, Hillard, 840
Cultivator, improved 318 Current collector for dynamos 117 Cycles, Diamond, Lovelt 380 Cyclomater, Hilliand 380	Locomotive, compound, new 376 Locomotive, Patterson 378	Tolophone Bell construction 65	Animals, emotions of	Buttou Instance	D D
D	Locust, seventeen year 378	Temple. Masonic, Chicago 81	Animals, nummied 7 Animals, sense of smell in 147 Animals, speech of 22 Animals, the strongest 236 Antelopes, swamp 119	Cable, Atlantic, new	Dam, Tenlock and Modests
Dirigo, abip Disinfectant mixer Listilation apparatus, family. 117 Ditching machine, Harvey's. 164 Drawfordge, Itariem River	Machine gun trials	Threating machine free! 133 Tide indicator, new 133 Tiger, Siberian 245 Tile, building, Stewart's 36 Timepiece of John Bunyan 25	Anticopes, awamp. 139 Anticoptics from coal tar. 571 Antithermics, coal tar. 571 Ants as bridge builders. 574 Ants, production of sound by 275	Table railway, aeriai	Deski, unanown, of creas. Selection of crease beath, organization. Selection of crease beath o
Drier, Harmon's	Machine gun triass Mail oar, electrio. 68 Mailer, Horton. Makeshift, a carpenter's. 281 Manchester ship canal. 145,152,154 Masonfe Temple, Chicago. 81 Metropolitan Traction Co. 49 Midwinter Kxibititon. 50 Milling curters. 30	Tide indicator, new Linger, Siberian 200 Tile, building, Stewart's 200 Tile, building, Stewart's 200 Tile, building, Stewart's 200 Tobacco, smoking 210 Toong, pipe, substitute 216 Tool, combination 340 Tool hoider, Shogran's 20 Tool noter, Shogran's 20 Tools, Epranan's 30 Torpedo Boot Havock 41 Torpedo Gestroyer Hornet 31 Torpedo Gestroyer Hornet 31 Torpedo Gestroyer Hornet 31 Torpedo Filton's 104	Antiseptics from coal tar. 371 Antisteroine, coal tar. 371 Antisteroine, coal tar. 371 Ants as bridge builders. 374 Ants, production of sound by 75 Ants. Texas, industrious 182 Antwerp Exhibition. 377 Antwerp exhibition. 377 Antwerp exhibition. 378 Apparatus, electric, new. 378 Apparatus, electric, price. 335 Apparatus, electric, price. 335 Apple, how to cut. 446 Apple, perfume of 381 Arborotum. a great. 194 Archaeology, notes on. 325 Archaeology, notes on. 325 Archaeology, notes on. 325 Archaeology, notes on. 327	alifornia, geological changes *52	Diamond, action of arc on
Driving gear, bicycle	Metropolitan Traction Co. 409 Midwinter Exhibition. 385 Mill, grinding, Harrison 20 Milling cutters 337 Milling cutters 337	Torch, Putam's 207 Torpedo beat Havock. 21 Torpedo Sestroyer Hornet 318 Torpedo, Fuiton's 104	Apple, how to cut 418 (Apple, perfume of 391 (Arabia, unexplored 37 Arborstum, a great 194	amera, new	Diamonds, African 217 Diamonds, African 217 Diamonds, artificial 9.355 Diamonds, yellow light on 220 Dielectrine 195 Dimension, the fourth 320 Diomession, the fourth 320 Diomession, the fourth 320
E Sector Power's	Mill, grinding, Harrison 20 Milling cutters 307 Milling cutters 307 Milling cutters 307 Milling cutters 308 Milling cutters 308 Monocycle, improved 308 Monocycle, improved 372 Monocycle, impro	Tower, electric, Bonet	Armice of Enrope 10 (Candie flame, brilliance 251	Dirigo, ship. 105 Discase, bacter as, fighting. 66 Discases, bacter as, fighting. 66 Disinfectant mizer 148 Distance counter, bicycle 1640 Distillation apparat., family. 117
Elevators Graves 1 1 Engine, gas, Olin 5 1	Montgomery, cruiser. 205 Motor, Devoiseaud's 340 Motor, gas, Olin 5	Transformer, welding 67 Tree graft, natural 146	Armor, naval, recent trials of 36: (Armor plate, 18 in., failure of 342 (andy rock 280 annon velocities, remarkable 311	Distillation apparat., family*117 Distress signals

Ditching machine, Harvey's, Dodder plant, experimenta, Dodder bant, experimenta, Dolichos soja, oli of. Dolichos soja, oli of. Dolichos soja, oli of. Drainage of Valley of Mexico, Dramatic copyright protection Draper, early labors of. Drawing in general education. Driver, Harmon's. Drill press, li inch. Drill press, li inch. Drill press, li inch. Driving gear, licycle. Driving gear, licycle. Drowning, sensations of. Drowning, apparatus Duroline. Dwelling, a Spanish. Dyeling wool. Dyeling wool. Dyeling wool. Dyeling wool. Dyeling mone pew.	**************************************	Fuel, oil. 114 Fulminate of mercury. 201 Funeral on River Spree 281 Funeral on River Spree 381 Fungus, effect of metal on 239 Furnace, boder, stulier 399 Furnace, electric, Moissan 366 Furnace linings, magnesia. 148 Furnaces, water heating. 19
Dynamic thawing accidents Dynamic steam marine Dynamos, carrent collector for Dynapos, carrent collector for Dynaposa. fermentative	- 11°	Garbage, utilisation of 211 Gas and gasoline engines 363 Gas burner, heating 912, 294 Gas companies, avending by 394 Gas cylinder explosion 19 Gas engine, Oth 5 Gas enriched by Oxygen 42 666 676 676 767 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768 768
Sada, Capt., the inde. Sagle, capture of samb by Sagle, capture of sagle, capture Sagle, what sale Sagle, sagle, sagle, Sagra, Australian Sagle in time of Mosea. Siglector, Power's Slectric oquipments, price of Slectric oquipments, price of Slectric oquipments, price of Slectric lash t Association Slectricity for sagle of sagle Slectricity, real sagle of sagle Slectricity, rea Slectricity, rea Slectricity, rea Slectricity, rea Slectricity, rea Slectricity, what is it? Slectricity, s		Gas from wood. Ighting. 26 Gas frames, rival of . 26 Gas Ights, incandescent. 36 Gas Ights, incandescent. 36 Gas transcar, trial of . 20 Gas well, remarkable. 36 Gases and Iquids. 32 Gases, occluded, in coal. 114 Gasotine enrine, Old's. 36 Gases, occluded, in coal. 114 Gasotine enrine, Old's. 37 Gastrograph. 37 Gastrograph. 37 Gestracebeth, the . 37 Gestracebeth, the . 37 Gestracebeth, the . 38 Giller, Jamaiss. 38 Gillacer,
Excavations in the Caucasus Exercise Exercise Exhibiting apparatus		n
Exhibition abparasiae Exhibition at Lyons Exhibition at Lyons Exhibition, cycle. Exhibition, cycle. Exhibition, cycle. Exhibition, Hidwinter Exhibition, Midwinter Exhibition, Midwinter Exhibition, Midwinter Expedition, Bahama Expedition, Bahama Expedition, Bahama Expedition, Britan Expedition, Stein Expedition, Stein Expedition, Britan Expedition, Britan Expedition, Britan Expedition, Stein Expedition, Stein Expedition, Stein Expedition, Stein Expedition, Stein Expedition, Order, warship Explosion, boiler, warship Explosion, boiler, warship Explosion, boiler, warship Explosion, order Explosion of Exposition, Midwinter, the Expedition, Midwinter, the Expedition in South Africa. Eye, bygiene of. Eyen, what is injurious to	東京 日本	Italr industry, France 29 Hattl. 146 Hatds and fingers, money value. 276 Hards and fingers, money value. 276 Harper, Russiss, new 186 Harper, Russiss, new 186 Harper, Russiss, new 186 Harper, Russiss, new 186 Harvard Observatory, Peru 6 Harvard Observatory, Peru 6 Harvard Observatory, Peru 7 Harvard Observatory, Peru 7 Harvard Control 8 Harvard 196 Heater, Feedwater 197 Heater 196 Heater, Feedwater 197 Heater 196 Heaven, Ratry, in May 20 Horse, Harvard 196
Pabrics from tarf	134	Horticulture, Infl. on manners 187 Hospitals, improved 282
Fabrica from turf Fabrica, taxtile, aluminum with Fabrica, waterproofing Tactory, Russian Fair, Midwinter, California178.	200 362	House, sanitary, new
*C02	SALES	Hypnotics, coal tar
Fair, World's, Brit. report on Fair, World's, foreign visitors Farm, gate, new. Farm lands wanting potash Frate, hydrocarbon Frate, and fower manufact	*672 305 306 *300 *300	Humming bird at home
Feedwater beater Feender en, improved. '88), Fender for street cars. Ferniest rear. Ferries. train. Free train. Fr	· 170 / 1714 / 170 / 17	icebergs in the Southern ocean. 322 ice floe, at sea off
Flower and feather manufact	167 1692 14 103	Juisteedskooff, Fust 248 Jay, blue, and anake 378 Jerusalem 468 Jetty, loancest in world 38 Jettles, Galveston. 247 Jerusalem 468 Jettles, Galveston. 247 Jerusalem 248 Jettles, Galveston. 248
Florida, sugar lands of	763 11.5 260 98 862	Jewiish, the 957 Journal box supports 214 Journal, scientific, first 251 Julea Davoust, beat 258
Try paper (ATM) Fry tree, Venue'	200 4 200	K
Fortigners learn our methods	82.	Kunaington, disamer 3 Kun, pottery, new 948 Klite, Corean 951 Klumpke, Doctor 51 Satting machines 60 Kruconias 160
Forging press. a large	100	Krappins
rortune for some one roundations in quicksand oundations, repairing	THE REAL PROPERTY.	Labor laws, New Zealand
french prosperity	486	Laboratory, lor for the

	Scientific	
######################################	Ladder for sleeping cars. Lake. artificial, a great. Lake. Copals, drainage. Lamp, electric, automatic. Lamp, electric, pollard. Lamp, incandecent, to mend. Lamp, street, lighting. Lamp, street, lighting. Lamps, sa, anto lighting. Lamps, incandese battery for. Language, the English Lantern silde making. Lantern silde making. Lather, inple geared. Lathe, polishing and busing. Lathe, triple geared. Law, bessuess, in daily use. Law, bessuess, in daily use. Law, oppyright, results of. Law, oppyright, results of. Law, oppyright, results of. Law, bessuess, in daily use. Law of trademarks. Law, of trademarks. Law, of trademarks. Leather, staining. Leat	
	Machine guns, trial of will machine, sugar plantation will make the machine will make t	Management of the Control of the Con
Day beliefeld	Nais, horse, Capewell Nais, horse, Capewell Natural history notes 106, 147, 273, 382 Nature, copying from 170 Nanpathia oceanickness 7 Navy, U. S., in 1012 200 Navies of Barope 210 Negatives, yellow color of 210 Negatives, yellow color of 345 New York, cruiser, pumps of 38 New York, cruiser, pumps of 38 Newspaper folder, Carris 72 New Zeoland labor laws 22	Canada and hard and hard man bearing in the last

8	
Obstrasty	Rifles. Road, Robin Rock
rees, belting, double	Schnet Science
	Surgery Sweepin Swimmi Swing, 1
ail industry. England	Pachoey Pannin Panning Panning Panning Pes tan Peeth ar Peeth ar Peeth ar Pelegra; Pelegra; Pelegra; Pelegra;

	13011
Refrigerating industries, prog. The lites, colonial	Telephone principal de la constitución de la consti
8	Tongs, pipe, Toning of phe
Saccharin	Tool holder, Tools, improve Tooth brushe Torpedo boat Torpedo cate
Ship canal, Manchester 145	Truants, hom
Ship Columbia, trial of Set Ship Hornet, trial of . 20 Ship Hornet, trial of . 20 Ship Hornet, trial of . 20 Ship Montenery, trial of . 27 Ship of war Indiana . 407 Ship of war Minneapolis . 471 Ship of war Minneapolis . 471 Ship of war Montgomery . 416 Ship of war New York . 58 Ship of war, top heavy . 47 Ship, steel, Dirigo . 48 Ship, steel, Dirigo . 48 Ship, steel, Dirigo . 48 Ship, steel, bringo . 48 Shot, 12 Inoth, testing . 41 Shovel, steens, for oars . 410 Shovel, steens, for oars . 48 Skiness, sieeping, African . 39 Skickle grinder, Gordon's . 48 Signal apparatus, aniomatie . 44 Shipnal apparatus, aniomatie . 44	Tuberculla in Tuberculosis. Tubes, pneur Tuberculosis. Tubes, pneur Tuberculosis, pneu
Signals, distress	Unicycle, Her
Silks vegetable 131 Silkworm, new 118 Siphon, a long, 50 Skeleton leaves. 261 Sing bricks 187 Slaughtering, scientific. 37 Sied, Swedish Meds and boats, siuminum. 267	Unicycle, imp University by University of Uranium toniu
Snow crystals	
Solida flow of under pressure. 184 ound waves, illustrating. 500 parket othing, the 72 parket othing, the 74 parry ws, drunken. 36 peech of animals. 22 peed indicator, new 37 peedway, New York. 1916, 31 pider bites, fatal 30 pider ingenuity of 500	Wagon, steam Wagons, patro Wall, great, of Wall, paper, m Walling, concer Warm, how to Warship India Warship Mont Warship Mont Warship New
spiders, repinning 25 sponga, deep sea. 25 sponga, deep sea. 25 sponga, deep sea. 25 samp mill, Tremain 27 samp mill, Tremain 37 samp mill, Tremain 37 seamer Kensington 5 seamer Kensington 5 seamer Priscilla. 31 seamer Paris and New Tork. 32 seamship, lake. 40 seam pring pregulator. 467 seam transmission, long 61 seamer 15 se	Warshipe, Brit Warshipe, Brit Warsheamer, Watch, Climaz Watches, curic Watches, effect Watches, histe Watches, low- Watches, low- Watches, low-
teel castings process teel, manganese. 107 teel, parification of. 188 teel, shooting through 188 teelniel, Dr. A. death 6 telli for family use. 117 tone, artificial 9 tone, flexible 776 tone, wood, or zylolith. 131 topcock, air brake. 230 tove, cooking, Norwegian 291 trainer, tee and coffee. 282	Water conduit Water distillin Water filter, B Water, Bow of Water, form a t Water, hard Water jet stee Water level in Water mains, Water power e Water, sterlin Watering live
treet car motor, new 19 treet car propulation 114 treet cars, belping up hill 105 treet lawp lighting 215 treets, maintaining 215 trike at Pullman 370 tuff we are made of 354 user canal traffic. 466	Waterproofing Waterways, in Waves, calming Waves, calming Waves, sound, Weather, Influ Weighing Weights and m Weiding rails, Well, air lift Well, gas, rems Wedts, artesias
ugar teems 122 ugar items 211 ugar items 211 ugar itanda, Florida. 111 ugar paronas 212 ugar ugar. 111 ugar process. Steffens 251 ugar synthesis of 240 un. distance of 340 un. distance of 350 uniflower, uses of 350 uniflower, use of 350 urgery, ophthalmic. 351 urgery, use of best in 350 weeping with compressed air. 250 winning to be learned by man. 150 wing, haunted. 351	Whalebone, ar wheat, notes of wheel, gigsanti wheels, pneum wheeler, Nath, whitney, Willi whooping cou windmill, elect windmill i elect windmill i elect windmill i elect window saah f winder wash feweren owood, chemica wood, emboasi wood some
achocyle 7911 annia of tea. 779 annia of tea. 779 annia of tea. 779 apicoa memistry in 781 apicoa ma cassava meal 82 ea strainer 982 ea teanin of 982 ea teanin of 979 eeth and civilization 971 eetorium glass substitute, 99 abnantepee railway 26 elegraph decision, a 300 elegraph the l'an-American 146	wood stone woman, saffrag women in scief women in scief wood, olling, p wood pulling, word canner, work of man, i world, geologic wrecks, those f wrench, Seymo
elegraph, resolution in	Xylolith or woo
elephone call, how to make. Ili elephone, carbon, patents. 56 elephone, coin-in-slot. 59 elephone Company, Bell. 108 elephone lines, suggestive. 28	Yachts, alumin

	13 3-1 94.
128	4 Teredo, protection againsi. "300 4 Test paper, new his 5 Textile fibers, to distinguish 277 7 Therapeutics of oxyges. "37 5 Thiosinamine as fixer "4 6 Thorns and prickles of plants. "77 8 Thrashing machine feed "35 8 Tide indicator. "12 9 Tiger, Siberian. "32 9 Tile, building, Stewart's. "49 9
1611年出版 344年 1811年	4 Tires, pacumatic. 2 Tobacco and muscular effort. 3 Tobacco, sective 1a. 13 Tobacco, smoking. 219 Tongs, pipe, substitute. 216 Toning of photo. prints. 39 Toning solution, photo. (3656). 27 Toning solution, photo. (3656). 27 Tool, combination. 30 Tool hidler, Shogren's. 70 Tools, improved, some 28 Toroth brushes, cheap. 16 Toropedo boat Havoran 1915. 22 Torpedo boats and search lights. 22 Torpedo catcher Hornet. 230 Torpedo destroyer Hornet. 313 Torpedo destroyer Hornet. 313 Torpedo destroyer Hornet. 315
111 6 20 10 10 10 10 10 10 10 10 10 10 10 10 10	J Tramway, cable, signaling. 314 Tramway, wire, in A lps. 123 Tramway, wire rope. 123 Tramway, wire rope. 123 Tramway, wire rope. 123 Tramway, wire rope. 123 Trap's insects, rats and thieves. 46 Trap's insects, rats and thieves. 46 Travelers. commercial, taxing. 39 Trees, eregreen, removing. 136 Trees, internal temperature. 350 Trees, evergreen, removing. 167 Trees, internal temperature. 350 Trolley conductor, Muir's. 352 Trolley conductor, Muir's. 357 Trolley conductor, Muir's. 357 Trolley system, imperfections. 178 Truncis, home for. 352 Truncis, home for. 352 Tuberculla in Delaware Tuberculosis and public health. 352 Tuberculosis mortality from. 357 Tubes, pneumstic. Chicago. 151 Tuck marker, improved. 358 Tunnel, hydraule, Niagars. 47 Tunnel, railway, fron. 358 Tunnel, allway, fron. 358 Truncis, and Modesta dam. 358 Tyndail, honors to memory of. 34 Typesetting, mechanical. 471
200 100 100 100 100 100 100 100 100 100	10
874 267 200 200 200 200 200 200 200 200 200 20	Vessels, propalsion of. 228 Vessels, stranded, relief of. 71 Vibration, molecular, lights 5 Vision, right and left hund. 28 Vivisection, limitation of. 37
组织的战争的 医多种多种 医多种 医多种 医多种 医多种 医多种 医多种 医多种 医多种 医	water corons act or igns
420796	Wood dyeing. 218 Wood, oiling, product for 97 Wood, oiling, product for 97 Wood pulling. 99 Word counter, automatic. 918 Work of man, afty years 225 World, geologic age of 100 Wrecks, lines from 93 Wrench, Soymour's. 912
****	X Xylolith or wood stone
	x

